CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

# TEST REPORT OF FINE AGGREGATE

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-23-04** **Date: 28-06-17** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Emergent work In Ward No.01 of Yelahanka sub Division. |
| **Agency** | : | Sri. R.S Thyagaraj, No.15, ramachandrapura, Jalahalli Post, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-08/W.O/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 23-06-17 |
| **Sample ID No** | : | 2017-06-23-04/03 |
| **Sample Type** | : | Fine Aggregate |
| **Reference to BIS codes** | : | IS 383 : 2016 (Specification for Coarse and fine Aggregates)<br>IS: 2386 :1963(Part - 1, 3) RA2012<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption |
| **Date of test** | : | 23-06-17 |
| **Total weight taken** | : | 1000 grams |

| Sl.no | Sieve Size | Weight Retained (gms) | Cumulative Weight Retained (gms) | % Cumulative Weight Retained | % Passing | Requirement as per IS 383:2016 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Grading Zone I | Grading Zone II | Grading Zone III | Grading Zone IV |
| 1 | 10 mm | 0 | 0 | 0 | 100 | 100 | 100 | 100 | 100 |
| 2 | 4.75 mm | 23 | 23 | 2.3 | 97.7 | 90-100 | 90-100 | 90-100 | 95-100 |
| 3 | 2.36 mm | 201 | 224 | 22.4 | 77.6 | 60-95 | 75-100 | 85-100 | 95-100 |
| 4 | 1.18 mm | 172 | 396 | 39.6 | 60.4 | 30-70 | 55-90 | 75-100 | 90-100 |
| 5 | 600 micron | 134 | 530 | 53 | 47 | 15-34 | 35-59 | 60-79 | 80-100 |
| 6 | 300 micron | 232 | 762 | 76.2 | 23.8 | 5-20 | 8-30 | 12-40 | 15-50 |
| 7 | 150 micron | 162 | 924 | 92.4 | 7.6 | 0-10 | 0-10 | 0-10 | 0-15 |
| 8 | Pan | 76 | 1000 | 100 | 0 | --- | --- | --- | --- |

**Result :The tested Sample Conforms to Grading Zone II**



Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn)

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# 4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-23-04** **Date: 28-06-2017** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Emergent work In Ward No.01 of Yelahanka sub Division. |
| **Agency** | : | Sri. R.S Thyagaraj, No.15, ramachandrapura, Jalahalli Post, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-08/W.O/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample condition** | : | Satisfactory |
| **Date of Receipt** | : | 23-06-17 |
| **Sample ID No** | : | 2017-06-23-04/02(a) |
| **Sample Type** | : | 40mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 23-06-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:**

**Total weight taken : 15000 grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 80 mm | 0 | 0 | 0.0 | 100 | 100 |
| 2 | 40 mm | 312 | 312 | 2.1 | 97.9 | 90-100 |
| 3 | 20 mm | 6165 | 6477 | 43.2 | 56.8 | 30-70 |
| 4 | 10 mm | 4921 | 11398 | 76.0 | 24.0 | 10-35 |
| 5 | 4.75 mm | 3292 | 14690 | 97.9 | 2.1 | 0-5 |
| 6 | Pan | 310 | 15000 | 100.0 | 0 | --- |

Asst. Executive Engineer
Yelahanka (Sub. Divison
BBMP Ynk. Zn)
Bangalore



CIVIL PRO BANGALORE Sig..... Date.....

## TEST REPORT ON COARSE AGGREGATES

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-23-04** **Date: 28-06-2017** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Emergent work In Ward No.01 of Yelahanka sub Division. |
| **Agency** | : | Sri. R.S Thyagaraj, No.15, ramachandrapura, Jalahalli Post, Bangalore. |
| **Customer Reference** | : | EE(YNK.D)E-PMT-08/W.O/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 23-06-17 |
| **Sample ID No** | : | 2017-06-23-04/02(b) |
| **Sample Type/ Size** | : | 20mm down size coarse aggregate |
| **Reference to BIS codes** | : | IS: 383:2016 (Specification for Coarse and fine Aggregates )<br>IS: 2386 :1963(Part - 1,3,4) RA2011<br>IS 2386 Part 1: Particle Size and Shape<br>IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption<br>IS 2386 Part 4: Mechanical Properties |
| **Date of test** | : | 23-06-17 |

**SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:**

**Total weight taken** : **5000** **grams**

| Sample No. | Sieve No. | Weight Retained in gms | Cumulative Weight Retained in gms | % Cumulative Weight Retained | % Passing | Required as per IS 383:2016 |
|---|---|---|---|---|---|---|
| 1 | 40 mm | 0 | 0 | 0 | 100 | 100 |
| 2 | 20 mm | 244 | 244 | 4.9 | 95.1 | 90-100 |
| 3 | 10 mm | 2282 | 2526 | 50.5 | 49.5 | 25-55 |
| 4 | 4.75 mm | 2335 | 4861 | 97.2 | 2.8 | 0-10 |
| 5 | Pan | 139 | 5000 | 100 | 0 | _ |



Asst. Executive Engineer
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CIVIL PRO Sig..... Date..... BANGALORE

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# TEST REPORT OF PRECAST COVER SLAB

| | | |
|---|---|---|
| **Lab ID** | : | **CP-2017-06-27-02** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. |
| **Project Name** | : | Emergent work In Ward No.01 of Yelahanka sub Division. |
| **Agency** | : | Sri. R.S Thyagaraj, No.15, ramachandrapura, Jalahalli Post, Bangalore. |
| **Customer's Reference** | : | EE(YNK.D)E-PMT-08/W.O/2017-18 |
| **Source of Sample** | : | Sample supplied by Agency |
| **Sample Condition** | : | Satisfactory |
| **Date of Receipt** | : | 27-06-17 |
| **Sample ID No** | : | 2017-06-27-02/01 |
| **Sample Type /Size** | : | Precast Cover Slab |
| **Reference to BIS codes** | : | IS: 516 - 1959 Methods of Tests for Strength of Concrete |
| **Date of test** | : | 27/06/2017 |

**Date: 01-07-17**

| Sl. No. | Identification Mark | Diameter of the core | Height of the core | Weight of the core | Area | Failure Load | Core Compressive strength | Corrected Cylinder Compressive strength | Equivalent Cube Compressive strength |
|---|---|---|---|---|---|---|---|---|---|
| | | (mm) | (mm) | (mm) | (Sq.mm) | (KN) | ($N/mm^2$) | ($N/mm^2$) | ($N/mm^2$) |
| 1 | Cover Slab-1 | 75.51 | 100.48 | 1.585 | 4477 | 80.9 | 18.1 | 16.8 | 21.0 |
| 2 | Cover Slab-2 | 75.49 | 100.52 | 1.621 | 4475 | 82.3 | 18.4 | 17.1 | 21.4 |
| 3 | Cover Slab-3 | 75.50 | 100.51 | 1.598 | 4476 | 81.5 | 18.2 | 16.9 | 21.2 |

**Note:**
The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

**Prepared by**
Harshitha

CIVIL PRO BANGALORE Sig..... Date.....

**FOR CIVIL Pro.**

**R KARTHIK RECHAN**
Authorized Signatory
**Quality Manager**

Asst. Executive Engineer
Yelahanka Sub. Divison
(BBMP Ynk. Zn.)
Bangalore



****End of Report****